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-	976	(707/204).CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:22
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-	21614503	((restor$3 or rewrit$3 or backup or writeback or write-back or (write adj back)) near10 ((revers$3 or opposite or contrary or backward$3) near5 (order or direction)) near10 time) adn @ad<=20011220	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:32
-	139	((restor$3 or rewrit$3 or backup or writeback or write-back or (write adj back)) near10 ((revers$3 or opposite or contrary or backward$3) near5 (order or direction)) near10 time) and @ad<=20011220	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:32
-	3	((restor$3 or rewrit$3 or backup or writeback or write-back or (write adj back)) near10 ((revers$3 or opposite or contrary or backward$3) near5 (order or direction))) and ((711/161).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:37
-	8	((restor$3 or rewrit$3 or backup or writeback or write-back or (write adj back)) near10 ((revers$3 or opposite or contrary or backward$3) near5 (order or direction))) and ((711/162).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:44
-	6	((restor$3 or rewrit$3 or backup or writeback or write-back or (write adj back)) near10 ((revers$3 or opposite or contrary or backward$3) near5 (order or direction))) and ((707/204).CCLS.)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/10/12 11:49
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1 **A performance monitor based on virtual global time for clusters of P**
Taufer, M.; Stricker, T.;
Cluster Computing, 2003. Proceedings. 2003 IEEE International Conference o
4 Dec. 2003
Pages:64 - 72

[Abstract] [PDF Full-Text (307 KB)] **IEEE CNF**

2 **Ion beam testing of ALTERA APEX FPGAs**
Ceschia, M.; Bellato, M.; Paccagnella, A.; Kaminski, A.;
Radiation Effects Data Workshop, 2002 IEEE , 15-19 July 2002
Pages:45 - 50

[Abstract] [PDF Full-Text (392 KB)] **IEEE CNF**

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1 **A database program to archive and analyze current weather data**
Parkin, S.H.; Refling, J.P.;
Geoscience and Remote Sensing Symposium, 1996. IGARSS '96. 'Remote Ser for a Sustainable Future.', International , Volume: 2 , 27-31 May 1996
Pages:1102 - 1104 vol.2

[Abstract] [PDF Full-Text (256 KB)] **IEEE CNF**

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1 A new high-order absolutely-stable explicit numerical integration algorithm for the time-domain simulation of nonlinear circuits

R. Griffith, M. Nakhla

November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(149.69 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

A new numerical integration method for the time domain simulation of nonlinear circuits is presented. The new method does not belong to the traditional class of linear multistep methods. Consequently it is free from Dahlquist's barriers in terms of stability and order. The new method is shown to be both A-stable and at the same time of arbitrarily high order. In addition, the method is explicit in nature and does not require matrix inversion at each time step. Examples of linear and nonlinear ci ...

Keywords: Circuit Simulation

2 Fault simulation under the multiple observation time approach using backward implications

Irith Pomeranz, Sudhakar M. Reddy

June 1997 **Proceedings of the 34th annual conference on Design automation - Volume 00**

Full text available: pdf(66.24 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

We present an improved procedure for fault simulation under themultiple observation time approach based on state expansion.Under state expansion, an incompletely specified state reachedduring fault simulation is replaced by 2{k} states, each one assigninga different combination to k unspecified present state variables.For each expanded state, additional output values are thenimplied. As a result, a fault that cannot be identified as detectedusing conventional simulation may now be identified as ...

3 Optimal-time incremental semantic analysis for syntax-directed editors

Thomas Reps

January 1982 **Proceedings of the 9th ACM SIGPLAN-SIGACT symposium on Principles of**

programming languages

Full text available: pdf(741.71 KB) Additional Information: full citation, abstract, references, citings

Attribute grammars permit the specification of static semantics in an applicative and modular fashion, and thus are a good basis for syntax-directed editors. Such editors represent programs as attributed trees, which are modified by operations such as subtree pruning and grafting. After each modification, a subset of attributes, AFFECTED, requires new values. Membership in AFFECTED is not known a priori; this paper presents an algorithm that identifies attributes in AFFECTED and computes their n ...

4 Ordered shared locks for real-time databases

Divyakant Agrawal, Amr El Abbadi, Richard Jeffers, Lijing Lin

January 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 1

Full text available: pdf(2.11 MB) Additional Information: full citation, abstract, references

We propose locking protocols for real-time databases. Our approach has two main motivations: First, locking protocols are widely accepted and used in most database systems. Second, in real-time databases it has been shown that the blocking behavior of transactions in locking protocols results in performance degradation. We use a new relationship between locks called ordered sharing to eliminate blocking that arises in the traditional locking protocols. Ordered sharing eliminates blocking of read ...

Keywords: concurrency control, time-critical scheduling, transaction management

5 A composition approach to time analysis of first order lazy functional programs

Bror Bjerner, S. Holmström

November 1990 **Proceedings of the fourth international conference on Functional programming languages and computer architecture**

Full text available: pdf(812.51 KB) Additional Information: full citation, references, citings, index terms

6 Half-order modal logic: how to prove real-time properties

Tom Henzinger

August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing**

Full text available: pdf(1.71 MB) Additional Information: full citation, references, citings, index terms

7 Binding time analysis for high order untyped functional languages

Charles Consel

May 1990 **Proceedings of the 1990 ACM conference on LISP and functional programming**

Full text available: pdf(845.81 KB) Additional Information: full citation, abstract, references, citings, index terms

When some inputs of a program are known at compile-time, certain expressions can be processed statically; this is the basis of the notion of partial evaluation. Identifying these early computations can be determined independently of the actual values of the input by a static analysis called binding time analysis. Then, to process a program, one simply follows the binding time information: evaluate compile-time expressions and defer the others to run-time.

8 Stability regions and spectra of discrete third-order autoregressive time-series

Richard Wiener, John S. Dorrenbacher

h c g e cf

January 1980 **Proceedings of the 12th conference on Winter simulation**

Additional Information: full citation, abstract, references, index terms

This paper presents an analysis of third order autoregressive time-series. The parameter regions, in the three dimensional parameter space, that produce the six separate types of power spectral density are analyzed. The study reveals that when a particular two dimensional cross section of the three dimensional parameter space is taken, the region of stability is always triangular. Within each triangular stability region in this two dimensional space, subregions which produce the six possibl ...

9 Scheduling partially ordered tasks with probabilistic execution times

K. M. Chandy, P. F. Reynolds

November 1975 **Proceedings of the fifth ACM symposium on Operating systems principles**

Full text available: pdf(731.41 KB) Additional Information: full citation, abstract, references, citings, index terms

The objective of this paper is to relate models of multi-tasking in which task times are known or known to be equal to models in which task times are unknown. We study bounds on completion times and the applicability of optimal deterministic schedules to probabilistic models. Level algorithms are shown to be optimal for forest precedence graphs in which task times are independent and identically distributed exponential or Erlang random variables. A time sharing system simulation shows that ...

Keywords: Deterministic models, Multi-processing, Multi-tasking, Probabilistic models

10 Real time information processing I: Direct Data Supervisor

F. R. Palm, D. L. Bahrs

September 1962 **Proceedings of the 1962 ACM national conference on Digest of technical papers**

Full text available: pdf(83.48 KB) Additional Information: full citation, abstract, index terms

AT THE IBM SPACE GUIDANCE CENTER, a Simulation Laboratory is connected to an IBM 7090 DPS via a direct data connection. In addition to its Simulation Laboratory functions, the 7090 is used by the Analysis and Computation Center to solve engineering problems, to compile and checkout system computer programs, and to process other various types of programs. The Simulation Laboratory contains an analog computer, a Digital Differential Analyzer (DDA), a Real-Time Control ...

11 Space-time tradeoffs and first order problems in a model of programs

C. K. Yap

April 1980 **Proceedings of the twelfth annual ACM symposium on Theory of computing**

Full text available: pdf(526.11 KB) Additional Information: full citation, abstract, references, index terms

We introduce a model of programs for comparison-based problems. This model gives a measure of space usage and is "uniform". We first obtain upper and lower bounds on the selection problems which demonstrate the tradeoffs between time and space. We next introduce the class of first order problems and characterize them semantically. A surprisingly simple classification of first order problems into three complexity classes is shown. Finally we extend the first orde ...

12 Integrating real-time and partial-order information in event-data displays

David J. Taylor, Michael H. Coffin

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(149.09 KB) Additional Information: full citation, abstract, references, citings, index terms

The events occurring in the execution of a distributed or parallel application are related by a partial, rather than a total, order. We have developed prototype software that collects such events during program execution and produces a graphical display consistent with the partial order. Such a display can be very helpful in understanding and debugging distributed and parallel applications. However, using only partial-order information does not allow the performance characteristics of an applica ...

13 Loop re-ordering and pre-fetching at run-time

Suvas Vajracharya, Dirk Grunwald

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(128.01 KB) Additional Information: full citation, abstract, references, citings

The order in which loop iterations are executed can have a large impact on the number of cache misses that an applications takes. A new loop order that preserves the semantics of the old order but has a better cache data re-use, improves the performance of that application. Several compiler techniques exist to transform loops such that the order of iterations reduces cache misses. This paper introduces a run-time method to determine the order based on a dependence-driven execution. In a dependen ...

Keywords: coarse-grain dataflow, data locality, dependence-driven, loop transformations, run-time systems, systolic arrays, temporal locality

14 A 1.5V low-power third order continuous-time lowpass ΣΔ A/D converter (poster session)

Friedel Gerfers, Yiannos Manoli

August 2000 **Proceedings of the 2000 international symposium on Low power electronics and design**

Full text available: pdf(222.84 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the design of a 3rd-order lowpass &Sgr;&Dgr; g-to-digital (A/D) converter using a continuous-time(CT) loopfilter. The loopfilter has been implemented by using active RC-integrators. The influence of the low supply voltage on the building blocks such as the amplifier and the common mode feedback as well as on the overall &Sgr;&Dgr modulator is discussed. Simulation results of the 1.5V CT &Sgr;&Dgr; A/D converter show a 75 dB dynamic range in a bandwidth of ...

15 How to get an exact sample from a generic Markov chain and sample a random spanning tree from a directed graph, both within the cover time

David Bruce Wilson, James Gary Propp

January 1996 **Proceedings of the seventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

16 Real-time principal direction line drawings of arbitrary 3D surfaces

Ahna Girshick, Victoria Interrante

July 1999 **ACM SIGGRAPH 99 Conference abstracts and applications**

Additional Information: full citation, citings, index terms

17 Reduced-order modelling of linear time-varying systems
Jaijeet Roychowdhury
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on Computer-aided design**
Full text available: pdf(527.91 KB) Additional Information: full citation, references, citings, index terms

18 ftd: an exact frequency to time domain conversion for reduced order RLC interconnect models
Ying Liu, Lawrence T. Pileggi, Andrzej J. Strojwas
May 1998 **Proceedings of the 35th annual conference on Design automation - Volume 00**
Full text available: pdf(206.51 KB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

Recursive convolution provides an exact solution for interfacing reduced-order frequency domain representations with discrete time domain models of piecewise linear voltage waveforms. The state-space method is more efficient, but not exact, and can sometimes produce large time domain errors. This paper presents a new algorithm, ftd (frequency to time domain), for incorporating linear frequency domain macro-models into time domain simulators. ftd provides accuracy equivalent to recur ...

Keywords: ISM frequency band, RF CMOS, digital radio, spread spectrum communication, transceiver

19 An exact interactive time visibility ordering algorithm for polyhedral cell complexes
Cláudio T. Silva, Joseph S. B. Mitchell, Peter L. Williams
October 1998 **Proceedings of the 1998 IEEE symposium on Volume visualization**
Full text available: pdf(950.29 KB) Additional Information: full citation, references, citings, index terms

Keywords: depth ordering, finite element methods, scientific visulazation, visibility ordering, volume rendering, volume visualzation

20 Annotation-directed run-time specialization in C
Brian Grant, Markus Mock, Matthai Philipose, Craig Chambers, Susan J. Eggers
December 1997 **ACM SIGPLAN Notices , Proceedings of the 1997 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**, Volume 32 Issue 12
Full text available: pdf(1.99 MB) Additional Information: full citation, abstract, references, citings, index terms

We present the design of a dynamic compilation system for C. Directed by a few declarative user annotations specifying where and on what dynamic compilation is to take place, a binding time analysis computes the set of run-time constants at each program point in each annotated procedure's control flow graph; the analysis supports program-point-specific polyvariant division and specialization. The analysis results guide the construction of a specialized run-time specializer for each dynamically c ...

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21 The virtual cinematographer: a paradigm for automatic real-time camera control and directing

Li-wei He, Michael F. Cohen, David H. Salesin

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(241.48 KB) Additional Information: full citation, references, citings, index terms

Keywords: camera placement, cinematography, hierarchical finite state machines, screen acting, virtual environments, virtual worlds

22 A nearly optimal time-space lower bound for directed st-connectivity on the NNJAG model

Jeff Edmonds, Chung-Keung Poon

May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing**

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

23 Multi-level direction of autonomous creatures for real-time virtual environments

Bruce M. Blumberg, Tinsley A. Galyean

September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(87.35 KB) ps(560.71 KB) Additional Information: full citation, references, citings, index terms

24 Probabilistic adaptive direct optimism control in Time Warp

Alois Ferscha

July 1995 **ACM SIGSIM Simulation Digest , Proceedings of the ninth workshop on Parallel and distributed simulation**, Volume 25 Issue 1

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings, index

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In a distributed memory environment the communication overhead of Time Warp as induced by the rollback procedure due to "overoptimistic" progression of the simulation is the dominating performance factor. To limit optimism to an extent that can be justified from the inherent model parallelism, an optimism control mechanism is proposed, which by maintaining a history record of virtual time differences from the time stamps carried by arriving messages, and forecasting the timestam ...

Keywords: CM-5, PVM, Petri nets, RS6000 cluster, Time Warp, forecast models, optimism control

25 Time and space profiling for non-strict, higher-order functional languages

Patrick M. Sansom, Simon L. Peyton Jones

January 1995 **Proceedings of the 22nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms

We present the first profiler for a compiled, non-strict, higher-order, purely functional language capable of measuring time as well as space usage. Our profiler is implemented in a production-quality optimising compiler for Haskell, has low overheads, and can successfully profile large applications.A unique feature of our approach is that we give a formal specification of the attribution of execution costs to cost centres. This specification ena ...

26 Learning structurally reversible context-free grammars from queries and counterexamples in polynomial time

Andrey Burago

July 1994 **Proceedings of the seventh annual conference on Computational learning theory**

Full text available: pdf(727.40 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present an algorithm to learn languages defined by structurally reversible deterministic context-free grammars from queries and counterexamples. The algorithm works in time polynomial in input size and the size of the original grammar. A context-free grammar is said to be structurally reversible if among all non-terminal strings that might derive a given terminal string, no one is an extension of the other. The concept of learning from queries and coun ...

27 Higher-order binding-time analysis

Kei Davis

August 1993 **Proceedings of the 1993 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation**

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

The partial evaluation process requires a binding-time analysis. Binding-time analysis seeks to determine which parts of a program's result is determined when some part of the input is known. Domain projections provide a very general way to encode a description of which parts of a data structure are static (known), and which are dynamic (not static). For first-order functional languages Launchbury [Lau91a] ...

28 Optimal ordering of analog integrated circuit tests to minimize test time

Scott D. Huss, Ronald S. Gyurcsik

June 1991 **Proceedings of the 28th conference on ACM/IEEE design automation**

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Full text available: pdf(561.42 KB) Additional Information: full citation, references, citings, index terms

29 A time-ordered architecture for integrating reflexive and deliberative behavior
Lundy M. Lewis
July 1991 **ACM SIGART Bulletin**, Volume 2 Issue 4
Additional Information: full citation, index terms

30 Time, clocks, and the ordering of events in a distributed system
Leslie Lamport
July 1978 **Communications of the ACM**, Volume 21 Issue 7
Full text available: pdf(854.56 KB) Additional Information: full citation, abstract, references, citings, index terms

The concept of one event happening before another in a distributed system is examined, and is shown to define a partial ordering of the events. A distributed algorithm is given for synchronizing a system of logical clocks which can be used to totally order the events. The use of the total ordering is illustrated with a method for solving synchronization problems. The algorithm is then specialized for synchronizing physical clocks, and a bound is derived on how far out of synchrony the clock ...

Keywords: clock synchronization, computer networks, distributed systems, multiprocess systems

31 PERT time calculations without topological ordering
S. E. Lass
March 1965 **Communications of the ACM**, Volume 8 Issue 3
Full text available: pdf(502.79 KB) Additional Information: full citation, citings, index terms

32 Retrieval times for a packed direct access inverted file
A. J. Bayes
October 1969 **Communications of the ACM**, Volume 12 Issue 10
Full text available: pdf(194.05 KB) Additional Information: full citation, abstract, references, index terms

This note extends the results obtained by Thomas C. Lowe [1] for the case where the list file is stored in packed form. The notation and terminology used were established by Lowe. In addition, we define $F(j) = \sum_{i=1}^{j-1} f(i)$ and write [x] for the greatest integer not exceeding x.

Keywords: data base, direct access memory, information retrieval, inverted list

33 Using direction and elapsed-time information to reduce the wireless cost of locating mobile units in cellular networks
Yitzhak Birk, Yaron Nachman
February 1995 **Wireless Networks**, Volume 1 Issue 4
Full text available: pdf(899.55 KB) Additional Information: full citation, abstract, references, citings

This paper proposes the use of easily-obtainable information to reduce the "wireless" cost of locating mobile units in cellular communication networks. This comprises the direct cost of

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searching for them in different cells upon arrival of calls, as well as that of occasional position-updates issued by the units to reduce the number of cells that need to be searched. The direction of motion at the time of last update is used to construct an asymmetric distance-based reporting bo ...

34 Strategic directions in real-time and embedded systems



John A. Stankovic
December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4
Full text available: pdf(209.23 KB) Additional Information: full citation, references, citings, index terms

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